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**TECH CENTER 1600/2900**

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A standard linear barcode is positioned horizontally across the page.

1600

**RAW SEQUENCE LISTING**  
PATENT APPLICATION: US/09/801,089A

DATE: 03/13/2003  
TIME: 13:53:26

Input Set : A:\sequence listing.txt  
Output Set: N:\CRF4\03132003\I801089A.raw

3 <110> APPLICANT: Philips, David  
4 Law, Debbie A.  
5 Alaimo, Lisa N.  
7 <120> TITLE OF INVENTION: Modulation of Integrin-mediated Signal Transduction  
9 <130> FILE REFERENCE: MPI95-015P1RCPA1DV1M  
11 <140> CURRENT APPLICATION NUMBER: US 09/801,089A  
12 <141> CURRENT FILING DATE: 2001-03-08  
14 <150> PRIOR APPLICATION NUMBER: US 08/734,607  
15 <151> PRIOR FILING DATE: 1996-10-18  
17 <150> PRIOR APPLICATION NUMBER: US 60/005,567  
18 <151> PRIOR FILING DATE: 1995-10-18  
20 <160> NUMBER OF SEQ ID NOS: 27  
22 <170> SOFTWARE: PatentIn Ver. 2.1  
24 <210> SEQ ID NO: 1  
25 <211> LENGTH: 23  
26 <212> TYPE: PRT  
27 <213> ORGANISM: Artificial Sequence  
29 <220> FEATURE:  
30 <221> NAME/KEY: MOD\_RES .  
31 <222> LOCATION: (8)  
32 <223> OTHER INFORMATION: PHOSPHORYLATION  
34 <220> FEATURE:  
35 <221> NAME/KEY: MOD\_RES  
36 <222> LOCATION: (20)  
37 <223> OTHER INFORMATION: PHOSPHORYLATION  
39 <220> FEATURE:  
40 <223> OTHER INFORMATION: Description of Artificial Sequence: peptide from Beta 1  
41 subunit of integrin  
43 <400> SEQUENCE: 1  
44 Asp Thr Gly Glu Asn Pro Ile Tyr Lys Ser Ala Val Thr Val Val  
45 1 5 10 15  
47 Asn Pro Lys Tyr Glu Gly Lys  
48 20  
51 <210> SEQ ID NO: 2  
52 <211> LENGTH: 27  
53 <212> TYPE: PRT  
54 <213> ORGANISM: Artificial Sequence  
56 <220> FEATURE:  
57 <223> OTHER INFORMATION: Description of Artificial Sequence: peptide from Beta 2  
58 subunit of integrin  
60 <220> FEATURE:  
61 <221> NAME/KEY: MOD\_RES  
62 <222> LOCATION: (5)

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63 <223> OTHER INFORMATION: PHOSPHORYLATION  
65 <400> SEQUENCE: 2  
66 Asp Leu Arg Glu Tyr Arg Arg Phe Glu Lys Glu Lys Leu Ser Gln Trp  
67 1 5 10 15  
68 Asn Asn Asp Asn Pro Leu Phe Lys Ser Ala Thr  
69 20 25  
70  
73 <210> SEQ ID NO: 3  
74 <211> LENGTH: 23  
75 <212> TYPE: PRT  
76 <213> ORGANISM: Artificial Sequence  
78 <220> FEATURE:  
79 <223> OTHER INFORMATION: Description of Artificial Sequence: peptide from Beta 3  
80 subunit of integrin  
82 <220> FEATURE:  
83 <221> NAME/KEY: MOD\_RES  
84 <222> LOCATION: (8)  
85 <223> OTHER INFORMATION: PHOSPHORYLATION  
87 <220> FEATURE:  
88 <221> NAME/KEY: MOD\_RES  
89 <222> LOCATION: (20)  
90 <223> OTHER INFORMATION: PHOSPHORYLATION  
92 <400> SEQUENCE: 3  
93 Asp Thr Ala Asn Asn Pro Leu Tyr Lys Glu Ala Thr Ser Thr Phe Thr  
94 1 5 10 15  
95 Asn Ile Thr Tyr Arg Gly Thr  
96 20  
97  
100 <210> SEQ ID NO: 4  
101 <211> LENGTH: 33  
102 <212> TYPE: PRT  
103 <213> ORGANISM: Artificial Sequence  
105 <220> FEATURE:  
106 <223> OTHER INFORMATION: Description of Artificial Sequence: peptide from Beta 5  
107 subunit of integrin  
109 <220> FEATURE:  
110 <221> NAME/KEY: MOD\_RES  
111 <222> LOCATION: (8)  
112 <223> OTHER INFORMATION: PHOSPHORYLATION  
114 <220> FEATURE:  
115 <221> NAME/KEY: MOD\_RES  
116 <222> LOCATION: (28)  
117 <223> OTHER INFORMATION: PHOSPHORYLATION  
119 <400> SEQUENCE: 4  
120 Glu Met Ala Ser Asn Pro Leu Tyr Arg Lys Pro Ile Ser Thr His Thr  
121 1 5 10 15  
122 Val Asp Phe Thr Phe Asn Lys Phe Asn Lys Ser Tyr Asn Gly Thr Val  
123 20 25 30  
124  
126 Asp  
130 <210> SEQ ID NO: 5  
131 <211> LENGTH: 34

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132 <212> TYPE: PRT  
133 <213> ORGANISM: Artificial Sequence  
135 <220> FEATURE:  
136 <223> OTHER INFORMATION: Description of Artificial Sequence: peptide from Beta 6  
137 subunit of integrin  
139 <220> FEATURE:  
140 <221> NAME/KEY: MOD\_RES  
141 <222> LOCATION: (8)  
142 <223> OTHER INFORMATION: PHOSPHORYLATION  
144 <220> FEATURE:  
145 <221> NAME/KEY: MOD\_RES  
146 <222> LOCATION: (20)  
147 <223> OTHER INFORMATION: PHOSPHORYLATION  
149 <400> SEQUENCE: 5  
150 Gln Thr Gly Thr Asn Pro Leu Tyr Arg Gly Ser Thr Ser Thr Phe Lys  
151 1 5 10 15  
153 Asn Val Thr Tyr Lys His Arg Glu Lys Gln Lys Val Asp Leu Ser Thr  
154 20 25 30  
156 Asp Cys  
160 <210> SEQ ID NO: 6  
161 <211> LENGTH: 23  
162 <212> TYPE: PRT  
163 <213> ORGANISM: Artificial Sequence  
165 <220> FEATURE:  
166 <223> OTHER INFORMATION: Description of Artificial Sequence: peptide from Beta 6  
167 subunit of integrin  
169 <220> FEATURE:  
170 <221> NAME/KEY: MOD\_RES  
171 <222> LOCATION: (8)  
172 <223> OTHER INFORMATION: PHOSPHORYLATION  
174 <220> FEATURE:  
175 <221> NAME/KEY: MOD\_RES  
176 <222> LOCATION: (20)  
177 <223> OTHER INFORMATION: PHOSPHORYLATION  
179 <400> SEQUENCE: 6  
180 Gln Thr Gly Thr Asn Pro Leu Tyr Arg Gly Ser Thr Ser Thr Phe Lys  
181 1 5 10 15  
183 Asn Val Thr Tyr Lys His Arg  
184 20  
187 <210> SEQ ID NO: 7  
188 <211> LENGTH: 29  
189 <212> TYPE: PRT  
190 <213> ORGANISM: Artificial Sequence  
192 <220> FEATURE:  
193 <223> OTHER INFORMATION: Description of Artificial Sequence: peptide from Beta 7  
194 subunit of integrin  
196 <220> FEATURE:  
197 <221> NAME/KEY: MOD\_RES  
198 <222> LOCATION: (5)

Input Set : A:\sequence listing.txt  
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199 <223> OTHER INFORMATION: PHOSPHORYLATION  
201 <220> FEATURE:  
202 <221> NAME/KEY: MOD\_RES  
203 <222> LOCATION: (25)  
204 <223> OTHER INFORMATION: PHOSPHORYLATION  
206 <400> SEQUENCE: 7  
207 Asp Arg Arg Glu Tyr Ser Arg Phe Glu Lys Glu Gln Gln Leu Asn  
208 1 5 10 15  
209 Trp Lys Gln Asp Ser Asn Pro Leu Tyr Lys Ser Ala Ile  
210 20 25  
211  
214 <210> SEQ ID NO: 8  
215 <211> LENGTH: 4  
216 <212> TYPE: PRT  
217 <213> ORGANISM: Artificial Sequence  
219 <220> FEATURE:  
220 <223> OTHER INFORMATION: Description of Artificial Sequence: ITAM  
221 signaling motif in integrin  
223 <220> FEATURE:  
224 <221> NAME/KEY: misc\_feature  
225 <222> LOCATION: (2)..(4)  
226 <223> OTHER INFORMATION: Xaa at positions 2 and 3 can be any amino acid; Xaa at  
227 position 4 is Leu or Ile.  
229 <400> SEQUENCE: 8  
  
W--> 230 Tyr Xaa Xaa Xaa  
231 1  
234 <210> SEQ ID NO: 9  
235 <211> LENGTH: 16  
236 <212> TYPE: PRT  
237 <213> ORGANISM: Artificial Sequence  
239 <220> FEATURE:  
240 <223> OTHER INFORMATION: Description of Artificial Sequence: Immune  
241 receptor activation motif  
243 <220> FEATURE:  
244 <221> NAME/KEY: misc\_feature  
245 <222> LOCATION: (2)..(16)  
246 <223> OTHER INFORMATION: Xaa at positions 4 and 16 is Leu or Ile; Xaa at  
247 positions 2, 3, 5-12, 14 and 15 can be any amino  
248 acid.  
250 <400> SEQUENCE: 9  
  
W--> 251 Tyr Xaa Tyr Xaa Xaa Xaa  
252 1 5 10 15  
255 <210> SEQ ID NO: 10  
256 <211> LENGTH: 23  
257 <212> TYPE: PRT  
258 <213> ORGANISM: Artificial Sequence  
260 <220> FEATURE:  
261 <223> OTHER INFORMATION: Description of Artificial Sequence: Control  
262 peptide for signal protein binding studies  
264 <400> SEQUENCE: 10

RAW SEQUENCE LISTING  
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265 Asp Thr Ala Asn Asn Pro Leu Tyr Lys Glu Ala Thr Ser Thr Phe Thr  
266 1 5 10 15  
268 Asn Ile Thr Tyr Arg Gly Thr  
269 20  
272 <210> SEQ ID NO: 11  
273 <211> LENGTH: 23  
274 <212> TYPE: PRT  
275 <213> ORGANISM: Artificial Sequence  
277 <220> FEATURE:  
278 <223> OTHER INFORMATION: Description of Artificial Sequence: Control  
279 peptide for signal protein binding studies  
281 <400> SEQUENCE: 11  
282 Asp Thr Gly Glu Asn Pro Ile Tyr Lys Ser Ala Val Thr Thr Val Val  
283 1 5 10 15  
285 Asn Pro Lys Tyr Glu Gly Lys  
286 20  
289 <210> SEQ ID NO: 12  
290 <211> LENGTH: 33  
291 <212> TYPE: PRT  
292 <213> ORGANISM: Artificial Sequence  
294 <220> FEATURE:  
295 <223> OTHER INFORMATION: Description of Artificial Sequence: Control  
296 peptide for signal protein binding studies  
298 <400> SEQUENCE: 12  
299 Glu Met Ala Ser Asn Pro Leu Tyr Arg Lys Pro Ile Ser Thr His Thr  
300 1 5 10 15  
302 Val Asp Phe Thr Phe Asn Lys Phe Asn Lys Ser Tyr Asn Gly Thr Val  
303 20 25 30  
305 Asp  
309 <210> SEQ ID NO: 13  
310 <211> LENGTH: 34  
311 <212> TYPE: PRT  
312 <213> ORGANISM: Artificial Sequence  
314 <220> FEATURE:  
315 <223> OTHER INFORMATION: Description of Artificial Sequence: Control  
316 peptide for signal protein binding studies  
318 <400> SEQUENCE: 13  
319 Gln Thr Gly Thr Asn Pro Leu Tyr Arg Gly Ser Thr Ser Thr Phe Lys  
320 1 5 10 15  
322 Asn Val Thr Tyr Lys His Arg Glu Lys Gln Lys Val Asp Leu Ser Thr  
323 20 25 30  
325 Asp Cys  
329 <210> SEQ ID NO: 14  
330 <211> LENGTH: 27  
331 <212> TYPE: PRT  
332 <213> ORGANISM: Artificial Sequence  
334 <220> FEATURE:  
335 <223> OTHER INFORMATION: Description of Artificial Sequence: Control  
336 peptide for signal protein binding studies

RAW SEQUENCE LISTING ERROR SUMMARY  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:8; Xaa Pos. 2,3,4  
Seq#:9; Xaa Pos. 2,3,4,5,6,7,8,9,10,11,12,14,15,16  
Seq#:22; Xaa Pos. 5,17,19,20,21,23,25,26,27,28,34,36,37,39,40,41,42,43,44  
Seq#:22; Xaa Pos. 45,46,47,48,50,51  
Seq#:27; Xaa Pos. 3

**VERIFICATION SUMMARY**

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L:230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
L:251 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
L:502 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0  
M:341 Repeated in SeqNo=22  
L:615 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0